

ABSTRACT OF THE INVENTION

The rotation of a pneumatic tire is monitored by a self powered tire revolution counter. A piezoelectric ("piezo") element is mounted in the tire in a manner so as to be subjected to periodic mechanical stresses as the tire rotates and to provide periodic pulses in response thereto. The output of the piezo element is utilized by revolution counting circuitry to count rotations of the tire, as well as by power circuitry to power the revolution counting circuitry.